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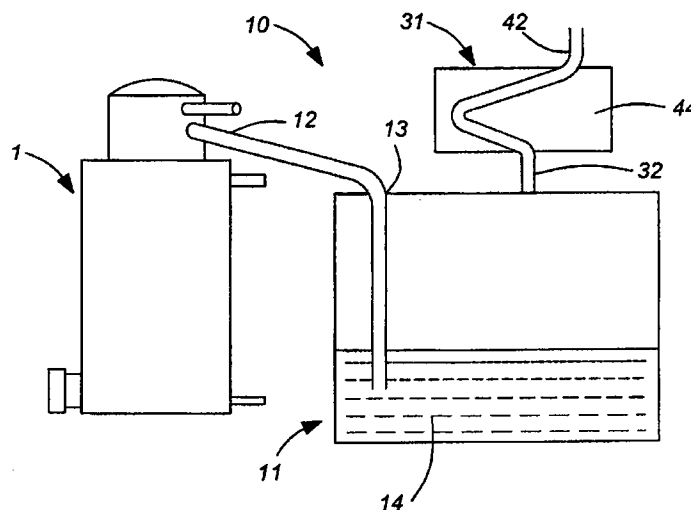
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For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: **sAPOUR MANAGEMENT SYSTEM**



(57) Abstract: A vapour recovery system (10) and method for volatile chemicals which enhances the efficiency and safety of the process of recovering the vapour is disclosed. The volatile substance is vaporized in a distillation unit (1) under the control of a computerised heating system. The resulting vapour is first directly condensed by bubbling the vapour directly into the liquid phase (14) of that volatile substance. Any vapour that remains after having passed through said liquid phase accumulates above the liquid phase (14) and is allowed to escape into a vapour management module (31). The vapour management module (31) facilitates efficient condensation of the vapour by allowing heat exchange from the vapour to a material (44) contained within said vapour management module (31). Upon cooling in the vapour management module (31), the vapour condenses, and can run back into the liquid phase (14) through which it had passed when in the vapour phase. The vapour management module (31) has an exhaust that is substantially free of the vapour



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INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 00/00807

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | US 4 850 117 A (VENKAT RAJOO ET AL) 25 July 1989 (1989-07-25) column 1, line 61 -column 2, line 4; figure 1 --- | 35,37-40 |
| X | EP 0 336 122 A (LINDE AG) 11 October 1989 (1989-10-11) column 4, line 20-42; figure --- | 35,37,40 |
| X | GB 603 598 A (SOCIÉTÉ POUR L'EXPLOITATION DES PROCÉDÉS AB-DER-HALDEN) 18 June 1948 (1948-06-18) page 1, line 69-95; figure ----- | 35 |

INTERNATIONAL SEARCH REPORT

I. national application No.
PCT/CA 00/00807

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/SA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-34,36

Solvent vapour recovery system

2. Claims: 35, 37-40

Vapour management system

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 00/00807

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
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| US 5873980 | A | 23-02-1999 | NONE | |
| US 5336376 | A | 09-08-1994 | DE 4214738 A CA 2095285 A DE 59301615 D EP 0568864 A JP 6007602 A | 11-11-1993 05-11-1993 28-03-1996 10-11-1993 18-01-1994 |
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| GB 603598 | A | | NONE | |

INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01D5/00 B01D1/00 F28C3/12 F28D19/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D F28C F28D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | US 5 873 980 A (PORTIS GERALD L ET AL) 23 February 1999 (1999-02-23) column 3, line 25-37; figure 2 --- | 1-34, 36 |
| X | US 5 336 376 A (TAURAT SIEGFRIED ET AL) 9 August 1994 (1994-08-09) column 2, line 27-40; figures --- | 1-34, 36 |
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| X | US 5 307 638 A (HERZOG FRIEDHELM ET AL) 3 May 1994 (1994-05-03) column 2, line 14 -column 3, line 14; figure 1 --- -/-- | 35, 37-40 |



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

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